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# Process Bionics: Accelerating application modernization

Reinventing an integrated approach to gain deeper insight into legacy systems and business functions



# Unlocking actionable insights to drive value to modernization journeys

To stay competitive and at pace with innovations such as cloud and automated intelligence, it is essential to modernize legacy technical landscapes. Since business and technology are intertwined, understanding productivity gains and process improvements can play a critical role in your organization's future success.

Deloitte's joint Process Bionics and Application Modernization & **Innovation** data-driven approach can provide transparency into end-to-end processes for your organization. Paired with ways to analyze legacy source code using automation and providing "truth in code," we can answer:

- What business rules drive legacy applications and if they match policy, contracts, and other service level agreements.
- Where to start if applications and infrastructure do not meet business needs.
- Whether the underlying legacy technology enables processes that drive value.

From understanding the business rules of your existing applications to unlocking actionable insights for clients, Deloitte's Process Bionics can help accelerate value along your organization's modernization journey.



# Why Process Bionics for application modernization?



#### Parallel IT and business transformation

Deloitte's Application Modernization & Innovation's discovery and mining technology combined with the process mining capability of the Center for Process Bionics creates a comprehensive view of the enterprise landscape. Leveraging these capabilities can create a modernization road that encompasses both technical and business improvements and quantification of value. View summary metrics through our Assess Dashboard to inform your organization of both short- and long-term



#### Unite stakeholders

Rather than transforming technology first and delivering it to business units, Application Modernization & Innovation with process bionics can bring business and technology stakeholders together on your organization's



#### Truth in code

Organizations often struggle to see the interconnectivity between their processes and the code that drives them. Our process mining approach identifies the major processes driving a business and unveils gaps between what is actually happening in the business versus what should be happening. This guides our code mining team on where to look in the code to help uncover the business rules that are executing the process. This combined approach helps businesses understand where change is needed and how they can regain control of their



# Modernize your legacy system to align with business processes

Our process transformation solution consists of four key components that identify the transformation approach, quantify the impact of change, and help organizations modernize their legacy technology system.

# 1 | PROCESS CAPTURE

#### Uncover the truth of your business processes

First, we conduct an analysis of current-state business processes and supporting applications and business rules. We then use techniques such as process mining, business rule tagging, dead or redundant code identification, and mapping of data dependencies, to uncover ways to lower technical debt, lower operating costs, and optimize business processes.

# **4 | PROCESS SUSTAINABILITY**

### **Utilize Deloitte's Cloud Managed Services**

Deloitte's Cloud Managed Services uses leading practices to help ensure that the business continues to improve even after the modernization is complete. With services such as service management, cost optimization, DevOps and automation, infrastructure management, security, risk and compliance, and analytics and service desk, Deloitte offers a full suite of solutions to have a continuous improvement and management program.



# 2 | PROCESS ENVISIONING

#### Design a tailored modernization road map

Our Process Bionics and Mining solution combines our deep business and technology domain knowledge, product automation, and time-tested methodologies to deliver insights into how legacy technology enables business capabilities today—and to create a modernization road map that enables the future you imagine.

# **3 | PROCESS EXECUTION**

#### Implement a successful digital transformation

Once we define the future-state vision, we help ensure that the modernization and digital transformation of the business goes smoothly. Code mining uses a holistic approach to help minimize impacts to the business by using innovative products and technical experience to automatically transform code and extract business rules.

## PROCESS TRANSFORMATION ENHANCES APPLICATION MODERNIZATION

#### **Process transformation**

is a key competitive advantage in a digital world. The Center for Process Bionics drives fast, effective, and sustainable process improvement with:



# **DATA-DRIVEN DECISIONS**

Access to the right data and tools yields better results



### **END-TO-END** TRANSPARENCY

See the big picture to mitigate risk and unintended consequences



### **SUSTAINABLE** RESULTS

Support ongoing process improvement and excellence

# has identified more than \$1 billion of value for our clients. To see process bionics in

The Center for Process Bionics

action across different industries, click here.

# The difference is data... and how it works for you

The journey to process transformation that truly yields return on investment begins with data. Deloitte's Center for Process Bionics leverages data to unlock actionable insights for your organization. Data enables faster, better, and more informed decision-making that can effortlessly deliver a modernization process that brings the business's legacy system into the future. And at the end of the day, that can lead to sustainable value.

At Deloitte, we are process transformation specialists. Our process bionics methodology is replicable and customizable to any organization's environment. We work across multiple industries to help improve customer digital design, and we tailor our specialized skills to identify process efficiencies, inform optimized decision-making, and enable tangible process transformation processes. The power of our team lies in our technical experience combined with our ability to synthesize data and create a road map for effective execution.

Want to learn more about optimizing the customer experience through process transformation? **Explore Deloitte's Center for Process Bionics.** 

#### Let's connect

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